Appl. No. 09/327,523 Andt. Dated September 30, 2005 Reply to Office Action of June 30, 2005

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A solid-state imaging element, comprising

in accordance with a potential of said charge in said charge store part switch for resetting said charge store part, and an amplifying element for outputting a signal element, a charge store part for storing charge transferred by said transfer switch, a reset element, a transfer switch for transferring charge stored in said photoelectric conversion unit pixels, arranged in a matrix, each of which has a photoelectric conversion

potential applied to selected ones of said reset switches; a vertical scanning circuit for selecting pixels in units of rows by controlling a reset

wherein each of said reset switches is a depletion type transistor,

signal lines; and a horizontal scanning circuit for sequentially selecting signals output to said vertical

an output circuit for outputting signals selected by said horizontal scanning circuit

- during vertical scanning to selected ones of said reset switches at said reset potential thereof. wherein said vertical scanning circuit applies vertical selection pulses sequentially output (Previously Presented) A solid-state imaging element as claimed in claim 1,
- charge store part is floating diffusion (Original) A solid-state imaging element as claimed in claim 1, wherein said

PAGE 4/8 * RCVD AT 9/30/2005 4:25:44 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-6/39 * DNIS:2738300 * CSID:312 704 8137 * DURATION (mm-ss):01-34

Appl. No. 09/327,523 Amdt. Dated September 30, 2005 Reply to Office Action of June 30, 2003

4. (Canceled).

- (Original) A solid-state imaging element as claimed in claim 1, wherein said output circuit outputs signals read into said vertical signal lines in voltage mode.
- (Original) A solid-state imaging element as claimed in claim 1, wherein said output circuit outputs signals read into said vertical signal lines in current mode.
- 7. (Previously Presented) A solid-state imaging element as claimed in claim 1, wherein said unit pixels include an overflow path between said photoelectric conversion element and an area to which a pixel source voltage is applied, said overflow path being used to discharge excess charges of said photoelectric conversion element.

8. (Previously Presented) A solid-state imaging element as claimed in claim 1, wherein a negative potential is applied to the control electrode of each of said transfer switches.

Claims 9-14 (Canceled).

15. (Previously Presented) A camera system using a solid-state imaging element as an imaging device, said solid-state imaging element, comprising:

PAGE 5/8 * RCVD AT 9/30/2005 4:25:44 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-6/39 * DNIS:2738300 * CSID:312 704 8137 * DURATION (mm-ss):01-34

Appl. No. 09/327,523 Amdt. Dated September 30, 2005 Reply to Office Action of June 30, 2005

unit pixels arranged in a matrix, each of which has a photoelectric conversion element, a transfer switch for transferring charge stored in said photoelectric conversion element, a charge store part for storing charge transferred by said transfer switch, a reset switch for resetting said charge store part, and an amplifying element for outputting a signal in accordance with a potential of said charge store part;

a vertical scanning circuit for selecting pixels in units of rows by controlling a reset potential applied to selected reset switches;

wherein each of said reset switches is a depletion type transistor;

a horizontal scanning circuit for sequentially selecting signals output to said vertical signal lines in units of columns; and

an output circuit for outputting signals selected by said horizontal scanning circuit.

- 16. (Previously Presented) The solid-state imaging element of claim 1, wherein a falling edge of the reset pulse triggers reading of a reference level.
- 17. (Previously Presented) The solid-state imaging element of claim 1, wherein a changing state of the reset pulse and a selection pulse initiates a pixel reading operation.

Claims 18 – 19 (Canceled).

(Previously Presented) The camera system of claim 15, wherein a falling edge
of the reset pulse triggers reading of a reference level.

PAGE 6/8 * RCVD AT 9/30/2005 4:25:44 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-6/39 * DNIS:2738300 * CSID:312 704 8137 * DURATION (mm-ss):01-34

Appl. No. 09/327,523 Azudt. Dated September 30, 2005 Reply to Office Action of June 30, 2005

state of the reset pulse and a selection pulse initiates a pixel reading operation. 21. (Previously Presented The camera system of claim 15, wherein a changing

PAGE 7/8 * RCVD AT 9/30/2005 4:25:44 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-6/39 * DNIS:2738300 * CSID:312 704 8137 * DURATION (mm-ss):01-34